



Atty. Docket No. 030537-0212

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gabriel DANZIGER
Title: Chrysanthemum Plant Named 'DANCHRYATPINK'
Appl. No.: 10/825,115
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Examiner: Kent L. BELL
Art Unit: 1661

**SUBMISSION OF SUBSTITUTE SPECIFICATION
UNDER 37 CFR 1.125 and MPEP § 608.01(q)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant hereby submits a Substitute Specification in the above-captioned application. Pursuant to 37 CFR 1.125 and MPEP § 608.01(q), Applicant certifies that the Substitute Specification contains no new matter.

Respectfully submitted,

Date: July 21, 2005

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CHRYSANTHEMUM PLANT NAMED 'DANCHRYATPINK'

Genus and species of the plant claimed:

Chrysanthemum morifolium

Variety denomination:

5 'Danchryatpink'

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Chrysanthemum* plant, botanically known as *Chrysanthemum morifolium*, hereinafter referred to by the cultivar name 'Danchryatpink'.

10 The new cultivar 'Danchryatpink' originated from a natural occurring spontaneous mutation on the *Chrysanthemum* cultivar 'Danchryat' in Moshav Mishmar Hashiva, Israel. The parental cultivar 'Danchryat' (patented, U.S. Plant Patent Number PP15,045). The new cultivar 'Danchryatpink' was discovered and selected by the inventor, Gabriel Danziger, as a flowering plant in September, 2001,
15 in Moshav Mishmar Hashiva, Israel.

'Danchryatpink' was selected in a cultivated environment in Moshav Mishmar Hashiva, Israel. Asexual reproduction of the new cultivar by stem cutting was first performed in January, 2002, in Moshav Mishmar Hashiva, Israel and has demonstrated that the combination of characteristics as herein disclosed for the new
20 cultivar are firmly fixed and retained through successive generations of asexual reproduction. The new cultivar reproduces true to type.

BRIEF SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and are determined to be basic characteristics of 'Danchryatpink' which in combination distinguish this *Chrysanthemum* as a new and distinct cultivar:

- 5 1. Oblong shaped, light violet ray florets RHS 84C;
2. Flowering time- 7.5 weeks;
3. Short day plant; and
4. Vigorous growth habit.

'Danchryatpink' has not been observed under all possible environmental
10 conditions. The phenotype of the new cultivar may vary significantly with variations in environment such as temperature, light intensity, and daylength without any change in the genotype of the plant.

Of the many commercial cultivars known to the inventor, the most similar in comparison to 'Danchryatpink' is the parental cultivar 'Danchryat'. 'Danchryatpink'
15 differs from 'Danchryat' in flower color. 'Danchryatpink' has light violet ray florets while 'Danchryat' has white ray florets.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying photographs illustrate the overall appearance of the new *Chrysanthemum* cultivar 'Danchryatpink' showing the colors as true as is reasonably
20 possible with colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical which accurately describe the colors of 'Danchryatpink'.

The first photograph shows a side view perspective of a corymb of 'Danchryatpink'. The second photograph shows a close-up of the flowers of 'Danchryatpink'.

DETAILED BOTANICAL DESCRIPTION

5 The following observations, measurements and values describe the new cultivar as grown in Moshav Mishmar Hashiva, Israel under conditions which closely approximate those generally used in commercial practice. Premium growth conditions include regular irrigation and fertilization using moderate regin; and recommended temperature range of 22°C - 23°C. 'Danchryatpink' is mainly grown in
10 greenhouses but can also be grown outdoors during summer. Color references are made to the Royal Horticultural Society Colour Chart (RHS), except where general colors of ordinary significance are used. Color values were taken under daylight conditions at approximately 12:00 pm. in Moshav Mishmar Hashiva, Israel. The age of the plants described is 11 weeks from planting.

15 PROPAGATION: Stem cutting

PLANT:

General Appearance and Form:

Height: 90 cm

Width: 20 cm

20 Shape: Compound Corymbifor

Flowering response: Short day type

Flowering season: Autumn and beginning of winter

Winter hardiness: Hardy in moderate climate

Lastingness of the individual bloom: On the stem: 3-4 weeks;

Off the stem: 2-3 weeks

Rooting habit: Adventitious roots from cutting base

Time to initiate roots: 6-7 days

5 Fragrance: None

FOLIAGE:

Overall Shape of Leaf: Pinnatipartite

Base Shape: Wedge-shaped

Apex Shape: Rounded

10 Margin: Serrate

Texture: Slightly warty

Leaf length: 10 cm

Leaf width: 5.5 cm

Color of Upper Surface:

15 Mature leaf: Yellow-green, RHS 147-A

Immature leaf: Yellow-green, RHS 147-A

Color of Lower Surface:

Mature leaf: Yellow-green, RHS 147-B

Immature leaf: Yellow-green, RHS 147-B

20 Venation Color:

Upper surface: Yellow-green, RHS 147-B

Lower surface: Yellow-green, RHS 147-C

Petiole:

Length: 2 cm

Diameter: 4 mm

Color: Yellow-green, RHS 146-A

5 INFLORESCENCE:

Flowering response: Short day

Quantity of inflorescences on average: 7-8 on average per stem

Inflorescence bud:

Height: 1 cm

10 Diameter: 16 mm

Color: Yellow-green, RHS 146-B

Inflorescence size:

Diameter: 9.5 cm

Depth (height): 18-20 mm

15 Diameter of disc: 18 mm

Ray florets:

Shape: Oblong

Length: 35-40 mm

Width: 12-13 mm

20 Apex: 6-8 mm

Margin: Entire

Texture: Smooth

Number of ray florets per inflorescence: 30-32

Color when opening: Light violet, RHS 84C

Color when fully opened upper surface: Light violet, RHS 84C

Color when fully opened lower surface: Pale violet, RHS 84D

Disc florets:

Shape: Bell shaped (campanulate)

5 Length: 4-5 mm

Width: 1 mm

Apex: Serrated

Margin: Entire

Texture: Smooth

10 Number of disc florets per inflorescence: 200-220

Color when opening: Yellow-green, RHS 146-B

Color when fully opened upper surface: Yellow, RHS 9-A

Color when fully opened lower surface: Yellow, RHS 9-C

Stem:

15 Average length: 85-90 cm

Average diameter: 8-10 mm

Color: Yellow-green, RHS 146-B

Internode length: 15-20 mm

Phyllaries:

20 Number: Typical: 15-18; Observed: 18

Length: Typical: 6-9 mm; Observed: 7 mm

Width: Typical: 1-2 mm; Observed: 2 mm

Overall shape: Oblong

Apex shape: Rounded (Obtuse)

Base shape: Truncate

Margin: Entire

Color:

5 Upper surface: Yellow-green, RHS 148-B
 Lower surface: Yellow-green, RHS 144-A

Peduncles:

Length: 15 cm

Diameter: 3.5-4 mm

10 Texture: Slightly warty

Color: Yellow-green, RHS 146-B

REPRODUCTIVE ORGANS:

Androecium: Present in disc florets only.

15 Stamen:

Number: 5 fused as a tube

Color: Yellow, RHS 13-A

Anthers:

Color: Yellow, RHS 13-A

20 Pollen:

Color: Yellow, RHS 13-A

Gynoecium: Present in both ray and disc florets.

Stigma:

Color: Yellow, RHS 12-B

25 Ovary:

Color: Yellow-green, RHS 149-D

Seeds:

Width: 0.8-1 mm

Length: 1.5 mm

Shape: Oblong

5 Color: Grayed-green, RHS 197-A

Fruit: Achene

Color: Grayed-green , RHS 197-A

10 DISEASE RESISTANCE: Unknown. No susceptibility was observed under regular growing condition.